

Title (en)

Hierarchical motion vector estimation using multiple block sizes

Title (de)

Hierarchische Bewegungsvektorsschätzung mit mehreren Blockgrößen

Title (fr)

Estimation hiérarchique de vecteurs de mouvement employant plusieurs tailles de blocs

Publication

EP 0734175 A1 19960925 (EN)

Application

EP 95104091 A 19950320

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Abstract (en)

An improved method for determining motion vectors by employing a multi-tier hierarchical motion estimation comprises (a) motion-estimating each of the hierarchical search blocks of a processing block with respect to a corresponding hierarchical search region to thereby provide motion vectors and minimum error functions corresponding to hierarchical search blocks, (b) comparing the minimum error functions with a predetermined threshold, (c) determining a search block having a least minimum error function among the hierarchical search blocks; and (d) if minimum error functions of one or more search blocks are smaller than the predetermined threshold, determining as a motion vector of the processing block, a motion vector corresponding to a search block of a highest hierarchy among said one or more search blocks and if none of the minimum error functions are smaller than the predetermined threshold, determining a motion vector corresponding to the search block determined in said step (c) as a motion vector of the processing block. <IMAGE>

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 463 (E - 833) 19 October 1989 (1989-10-19)

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